## ABSTRACT

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When color image data (C1, M1, Y1) representing a color image is read in S11, the minimum value from among the color values C1, M1, and Y1 is selected in S12. Next, in S13, black data K1 is generated using a black data generating table that corresponds to the color of minimum value  $k = \min (C1, M1, Y1)$  determined in S11. black data generating tables have different black data conversion characteristics from one another associated with the three colors of cyan, magenta, yellow, respectively. In S14, the black data K1 obtained in \$13 is subtracted from each of the color data C1, M1, and Y1 to obtain corrected color data C2, M2, and Y2. In S15, the data C2, M2, and Y2 are outputted along with the black data K1 as four-color data (C2, M2, Y2, K1) Accordingly, it is possible to form images of high quality, even when the main color of the image changes, by preventing light- or weakcolor images from appearing messy due to the black color being depicted too strongly and by preventing dark- or strong-color images from lacking sufficient contrast due to the black color being depicted too weakly.